Term 1 - 2023

COMPUTER STUDIES

 (MARKING SCHEME )

FORM TWO

Name: …………………………………………………………. Adm No: ……………….

Class: …………………..

Signature: …………………………………………………….. Date: ……………………

1. Using a diagram to describe the following
2. Digital data
* ***Digital data is discrete in nature***



1. Analog data
* ***Analog data is continuous in nature***



***Award 1 for description and 1 mark for the diagram max 4***

1. The line of text in the box was created using Word processor. The cursor position is between the words “so” and “as”

**Ensure that cables in the computer laboratory are properly insulated so as to eliminate the dangers of electric shock to the user**

Describe what happen to the text in the box above when each of the following keyboard keys are pressed

1. Enter
* ***All the line of text from the word “as” will move to the next line***
1. Tab
* ***All the line of text from the word “as” will be pushed forward creating a wide space between the word “so” and “as”***
1. End
* ***The line of text will remain the same***

***Award 1mark each max 3***

1. What is a warranty
* ***Warranty is an agreement the buyer and the seller that spells out terms and condition of after selling a product in case of failure or malfunction***

***Award 1 mark each max 1***

1. Give three content of a good warranty
* ***Scope of coverage***
* ***Callout response and liability agreement***
* ***Preventative maintenance***

***Award 1 mark each max 3***

1. State the standard unit for measuring computer speed, memory and monitors size
* ***Speed - Hertz***
* ***Memory- Byte***
* ***Monitor Size- Inches***

***Award 1 mark each max 3***

1. With reference to speed, size, cost and charge leakage compare static RAM and Dynamic RAM

|  |  |  |
| --- | --- | --- |
| ***Features*** | ***SRAM*** | ***DRAM*** |
| ***Speed*** | ***Faster*** | ***Slower*** |
| ***Size*** | ***Smaller*** | ***Larger*** |
| ***Cost*** | ***Expensive*** | ***Cheap*** |
| ***Charge leakage***  | ***Charge leakage property absent therefore does not require refreshing*** | ***Charge leakage property present therefore require refreshing*** |

***Award 1 mark each max 4***

1. Mention four characteristics of Gas plasma Display monitor
* ***Has high resolution***
* ***Light, hence portable***
* ***Expensive***
* ***Produces a low amount of radiation***
* ***Occupies less space***

***Award 1 mark each max 4***

1. List four ways in which ICT can be used to enhance security in a supermarket
* ***Install alarming system for warnings and notifications***
* ***Biometric systems to restrict entry***
* ***Use swipe card to grant access to restricted rooms***
* ***Install CCTV camera for monitoring and surveillance***

***Award 1 mark each max 4***

1. State four health issues that could arise from prolonged use of computers or use of unsuitable furniture
* ***Repetitive Strain Injuries***
* ***Headache***
* ***Backache***
* ***Eye strain***

***Award 1 mark each max 4***

1.
2. Identify the device shown below
* ***Magnetic stripe Recognition/Reader***



***Award 1 mark max 1***

 Figure 1

1. Give four areas where the technology in 9(a) above is mostly used
* ***In Bank at the ATM for cash deposit and withdrawal***
* ***Used in Supermarkets for settling bills at the EPOS***
* ***Used at the parking lots to raise the barriers***
* ***Used to open doors of restricted rooms***

***Award 1 mark each max 4***

1. State four output devices found in an ATM machine
* ***Monitor***
* ***Speaker***
* ***Printer***
* ***Cash dispenser tray***

 ***Award 1 mark each max 4***

1. Use the table below to classify the devices in the table as input or output devices

|  |  |  |
| --- | --- | --- |
|  | **Devices** | **Category (Input/Output)** |
| 1 | Touchscreen | ***Input*** |
| 2 | Projector  | ***Output*** |
| 3 | Interactive Whiteboard | ***Input*** |
| 4 | Digital Camera | ***Input*** |
| 5 | Microphone  | ***Input*** |

**Table 1**

***Award 1 mark each max 5***

1. State four ways in which computers could be used in each of the following sectors other than ensuring maximum security
2. Transport sector
* ***Computer based system are used to control traffic lights***
* ***Navigation softwares are use drivers to locate places***
* ***Computerized systems support booking and reservation***
* ***Computer programs are used to prepare transport schedules***
* ***Tracking system is used a tool of management***

***Award 1 mark each max 4***

1. Retail shops
* ***Advertisement using the internet or smart displays***
* ***E-commerce***
* ***Keeping records or books of accounts using computer programs***
* ***Communication to the customers via whattapps, email and sms***
* ***Computer support electronic payment platforms***

***Award 1 mark each max 4***

1. List four softcopy output devices
* ***Light Emitting Diodes***
* ***Projector***
* ***Monitor***
* ***Speaker***

***Award 1 mark each max 4***

1. Identify the most appropriate output devices for the production of each of the following
2. Receipts and Invoices
* ***Dot Matrix/Daisy wheel***
1. Architectural and Engineering drawings
* ***Plotter***
1. Output for visually impaired person
* ***Braille Output***
1. Letters, memos and notices
* ***Laser printer/inkjet***

***Award 1 mark each max 4***

***Award 1 mark each max 3***